

VACUUM INSULATED PANEL AND CONTAINER AND METHOD OF PRODUCTION

Abstract Of The Disclosure

A core panel or box of rigid plastics microporous foam is provided with parallel spaced passages or thin grooves and is placed within an envelope or bag of flexible multi-layer barrier film impervious to the passage of gas. The bag includes an integral evacuation tubular portion which is releasably coupled to an evacuation nozzle connected by a manifold with solenoid valves to a vacuum pump. After air is substantially evacuated from the foam core and the bag to collapse the bag against the foam core and into the grooves, a vacuum sensor operates a computer which controls the valves for checking the vacuum level within the bag and for optionally admitting an additive gas. Closely spaced grooves within opposite sides of the foam panel provide for bending the evacuated panel, and a thin layer of foam is applied to the outer surface of the vacuum insulated panel to provide a protective outer surface.